

PTO/SB/21 (09-04)

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## TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Application Number Filing Date First Named Inventor Art Unit Examiner Name  Total Number of Pages in This Submission	10/720,024 November 21, 2003 Thorn, Matthew G. 1754 *** 7
	Attorney Docket Number  C51757-0680

ENCLOSURES (Check all that apply)		
<input type="checkbox"/> Fee Transmittal Form <div style="margin-left: 20px;"><input type="checkbox"/> Fee Attached</div> <input type="checkbox"/> Amendment/Reply <div style="margin-left: 20px;"><input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s)</div> <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement  <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Reply to Missing Parts/ Incomplete Application <div style="margin-left: 20px;"><input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53</div>	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <div style="margin-left: 20px;"><input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation <input type="checkbox"/> Change of Correspondence Address</div> <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ <div style="margin-left: 20px;"><input type="checkbox"/> Landscape Table on CD</div>	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input checked="" type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):  <div style="margin-left: 20px;">Return Postcard 7 References</div>
Remarks		

### SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	Womble Carlyle Sandridge & Rice, PLLC		
Signature			
Printed name	David E. Wigley		
Date	April 12, 2005	Reg. No.	52,362

### CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:

Signature			
Typed or printed name	Sharon R. Dunn	Date	April 13, 2005

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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~~MARK 1~~ Substitute for form 1449/PTO

## **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

*(Use as many sheets as necessary)*

Sheet 1 of 2

**Complete if Known**

Application Number	10/720,024
Filing Date	November 21, 2003
First Named Inventor	Thorne, Matthew G.
Art Unit	1754
Examiner Name	***
Attorney Docket Number	C51757-0680

**U. S. PATENT DOCUMENTS**

## **FOREIGN PATENT DOCUMENTS**

**Examiner Signature** \_\_\_\_\_ **Date Considered** \_\_\_\_\_

**EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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Substitute for form 1449/PTO		<b>Complete If Known</b>			
		<b>Application Number</b>	10/720,024		
		<b>Filing Date</b>	November 21, 2003		
		<b>First Named Inventor</b>	Thorn, Matthew G.		
		<b>Art Unit</b>	1754		
		<b>Examiner Name</b>	***		
Sheet	2	of	2	Attorney Docket Number	C51757-0680

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	BA	Marks, "Surface-Bound Metal Hydrocarbyls. Organometallic Connections Between Heterogeneous & Homogeneous Catalysis", Accts of Chem. Res., Vol 25, No. 2 pp 57-65 (Feb. 1992)	
	BB	Jezequel, et al., "Supported Metallocene Catalysts by Surface Organometallic Chemistry. Synthesis, Characterization..., J. Am. Chem. Soc. Vol. 123, pp. 3520-3540 (2001)	
	BC	Wailes, P.C. et al., Organometallic Chemistry of Titanium, Zirconium and Hafnium, Organometallic Chemistry, pp. 89, 91, 92, 150, 151, 155, (Academic Press NY 1974)	
	BD	Cardin, D.J. et al., Chemistry of Organo-Zirconium-and-Hafnium-Compounds, pp. 145-160 (Halstead Press NY 1986)	
	BE	Hongsang, A. et al. Surface Organozirconium-Electrophiles Activated by Chemisorption on "Super Acidic" Sulfated Zirconia ..., Organometallics, Vol. 2002; No.12, pp.1788-1806	
	BF	Charoenchaidet, S. et al., "Methylaluminopxane-Free Ethylene Polymerization With In Situ Activated Zirconocene Triisobutylaluminum Catalysts And Silica-Supported Stabilized	
		Borate Cocatalysts, J. Polymer Science, Part A: Polymer Chemistry, Vol. 40: No. 19, pp. 3240-3248 (Oct. 1, 2002)	
	BG	Das, P.K., Computational Chemistry of Metallocene Catalyzed Olefin Polymerization, 21st Century Symp. at S.W. Reg. Amer. Chem. Soc. Mtg. (OK October 26-28 2003)	

Examiner Signature	Date Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: )  
                            )  
                            )  
                    Thorn et al.     )     Art Unit:     1754  
                            )  
                            )  
Serial No.:    10/720,024     )     Examiner:    \*\*\*  
                            )  
                            )  
Filed:       November 21, 2003     )     Docket No.:   C51757-0680  
                            )  
For:           **CATALYSTS COMPOSITIONS FOR PRODUCING POLYOLEFINS  
                  IN THE ABSENCE OF COCATALYSTS**

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
P.O. Box  
Alexandria, Virginia 22313-1450

Sir:

The citation of information on the attached Forms PTO/SB/08A and PTO/SB/08B (Sheets 1 and 2), "Information Disclosure Statement By Applicant" is made pursuant to 37 C.F.R. §§ 1.97 and 1.98. Pursuant the waiver in the OG notice dated August 5, 2003, copies of the listed items AA-AD are not enclosed.

Applicants also request that the Examiner review the below-listed patent applications. The serial number of the below-listed U.S. patent applications are listed on this form as provided in M.P.E.P. §609(D), rather than a PTO/SB/08B form, to avoid the serial number of the pending U.S. patent applications from being published on any patent that may issue from this application.

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I hereby certify that this correspondence is being deposited with the United States Postal Service in an envelope addressed to: Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450, on April 13, 2005.

Sharon R. Dunn

Sharon R. Dunn

Applicants do not waive the confidential nature of the below-listed patent applications.

\_\_\_\_ U.S. Patent Application Serial No. 10/723,350 (Martin, et al.), filed November 26, 2003, entitled "Stannoxy-Substituted Metallocene Catalysts for Olefin and Acetylene Polymerization", Attorney Docket No. C51757-0310.

\_\_\_\_ U.S. Patent Application Serial No. 10/797,897 (Sukhadia, et al.), filed March 10, 2004, entitled "Ethylene Polymers and Copolymers with High Optical Opacity", Attorney Docket No. C51757-0450.

\_\_\_\_ U.S. Patent Application Serial No. 10/797,673 (Sukhadia, et al.), filed March 10, 2004, entitled "Ethelyne Polymers and Copolymers With High Optical Opacity and Methods of Making the Same", Attorney Docket No. C51757-0520.

\_\_\_\_ U.S. Patent Application Serial No. 10/762,056 (Jensen, et al.), filed January 21, 2004, entitled "Dual Metallocene Catalyst for Production of Film Resins with Good MD Tear Strength", Attorney Docket No. C51757-0690.

\_\_\_\_ U.S. Patent Application Serial No. 10/755,083 (Jensen, et al.), filed January 9, 2004, entitled "Catalyst Compositions and Polyolefins for Extrusion Coating Applications", Attorney Docket No. C51757-0770.

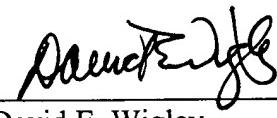
The Examiner is specifically requested not to rely solely on the information submitted herein. On the contrary, the Examiner is requested to conduct an independent and thorough review of the information, and to form independent opinions as to their significance.

It is respectfully requested that the Examiner initial and return copies of the enclosed Forms PTO/SB/08A and PTO/SB/08B (Sheets 1 and 2) and to indicate in the official file wrapper of the above-identified patent application that each item of the cited information has been considered.

The citation of this information does not constitute an admission that any of the materials are available as a reference or of priority, or a waiver of any right Applicants may have under applicable statutes, Rules of Practice in patent cases, or otherwise.

Pursuant to 37 C.F.R. §1.97(b)(3), Applicant asserts no fee is due. However, the Commissioner is hereby authorized to charge any deficiencies which may be required or credit any overpayment to Deposit Account Number 09-0528.

Date: April 12, 2005

  
\_\_\_\_\_  
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